



Appendix A: Preferred Bicycle Network Details



PREFERRED BICYCLE NETWORK DETAILS

Facility Recommendations

The Maricopa County Bicycle Transportation Plan includes the addition of 473 miles of on-road bicycle facilities. There are 588 road segments from the County road database that have been combined and condensed to 110 segments for the purposes of this plan. This identifies the ultimate network, required improvements will be determined on a project by project basis and will include either bicycle lanes, paved shoulders, and/or a combination of signing and stripping.

How the network was identified:

The first step in the selection process was to map the existing on-road bicycle facilities in the County. This was done using information provided by MAG and the cities of Phoenix, Scottsdale, Tempe, Mesa, Chandler, Glendale, and Peoria.

The second step was to map the planned on-road bicycle facilities for all communities in the County. Then the off-road and trail systems were added to the map.

The next step was to analyze the entire system and determine where gaps in connectivity existed and if these gaps were located within unincorporated areas of the County. The first priority then, was to select County road segments that directly connected to either existing or planned bicycle facilities in the incorporated communities. An effort was made to choose segments that would provide the bicyclist with an uninterrupted, on-road transportation network between valley cities.

The second phase of the selection procedure was to connect the County park system to the bicycle plan. Providing bicycle access to the parks helps integrate the transportation with the recreational aspects of cycling.

The third phase was to bring the outlying communities into the system. Many cyclists already use the rural highways in the County for both transportation and recreation. Improving the service level of these roads will encourage more people to participate in cycling activities while enhancing the safety level for all highway users.

Providing an integrated network:

This plan provides a comprehensive transportation network of on-road bicycle facilities throughout Maricopa County. It provides connections between valley communities and closes the gaps created in the existing system by isolated county islands. It provides access to County parks, lakes and other recreational facilities. The plan connects the outlying communities to the urban center and helps to facilitate bicycling as a reasonable, non-polluting alternative to the automobile.

Building the system:

Many of the projects can be included as part of routine widening and upgrading proposals. All road projects should be evaluated for the possible inclusion of bicycle facilities. By including the bicycle facility as part of a larger construction project, the costs can be minimized.

Projects already identified in the TIP should be analyzed to determine if they are included in the proposed preferred network. Where possible and if necessary, the designs should be modified to include bicycle facilities.

Some projects may be eligible for federal funding through Enhancement or Air Quality programs.



Bicycle Network Description

The following pages provide a detailed description of the entire proposed bicycle network. The bicycle network is broken down into 110 segments grouped by roadway type, continuity and geographic area. The following information is provided for each segment:

